

CLAIMS

1. Optical detector device for a meter, comprising a consumption indicator formed of a rotating disc (4) provided
5 with at least one so-called active sector and optical elements
of emitting type and receiving type opposite said disc, whose
received optical signal is processed to infer at least the
number of rotations of said disc, characterized in that said
disc comprises at least three sectors (4A, 4B, 4C) with a centre
10 angle of 120° , each of the sectors being coated in a different
color on its surface facing outwardly from the meter (1), and
said optical elements comprise at least one emitting element
(6) emitting a light beam of at least two different colors,
and a receiving element (7) receiving a reflected light beam.

15 2. Device as in claim 1, characterized in that said
optical emitter (6) operates sequentially.

3. Device as in either of the preceding claims,
characterized in that the positioning of said optical elements
(6,7) is such that the angle of incidence (B) of the optical
20 beam emitted and received by the optical elements is less than
 60° .

4. Device as in any of the preceding claims
characterized in that it comprises a collimator device (8) for
the optical beam.

25 5. Device as in claim 4, characterized in that said
collimator device (8) comprises slits (9) limiting stray
interference between light beams.

6. Fluid meter (1) comprising a rotating disc (4) that
is part of an optical detector device as in any of the
30 preceding claims.

7. Detection module (5) intended to cooperate with a
fluid meter (1) and comprising said optical elements (6, 7)
that are part of a device as in any of claims 1 to 5.

8. Module as in claim 7, characterized in that it also comprises an optical beam collimation device (8).